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CLAIMS

1. A solid-state image pickup device for an auto-focus comprising first and second linear sensor pairs each having a linear sensor for a base portion with a plurality of pixels and a linear sensor for a reference portion with a plurality of pixels in order to perform a focal point detection of a TTL passive-type phase detection system,

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second linear sensor pair have a same pixel pitch,
said first linear sensor pair and said second linear
sensor pair are neighboring in parallel and are
arranged so as to be relatively deviated in the
arranging direction of said linear sensor for the
base portion and said linear sensor for the reference
portion, and a signal output to detect the focal
point is executed by using both of said first linear
sensor pair and said second linear sensor pair.

- 20 2. A device according to claim 1, wherein a deviation amount between said first linear sensor pair and said second linear sensor pair is equal to almost 0.5 pixel.
- 3. A device according to claim 1, wherein a
 25 photosensing unit of the pixel of said first linear
 sensor pair and a photosensing unit of the pixel of
 said second linear sensor pair are arranged so as to

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be neighboring.

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4. A device according to claim 3, wherein there is no light shielding layer between photoelectric converting devices of said first linear sensor pair and said second linear sensor pair.

5. A solid-state image pickup device for an auto-focus comprising:

said first and second linear sensor pairs
according to claim 1;

a third linear sensor pair arranged in a direction which perpendicularly crosses said first and second linear sensor pairs; and

a fourth linear sensor pair having a base-line length larger than that of said third linear sensor pair,

and wherein said fourth linear sensor pair is arranged outside of said third linear sensor pair with respect to a direction of said base-line length.

- 6. A device according to claim 5, wherein said third linear sensor pair and said fourth linear sensor pair are arranged on a same straight line.
 - 7. A solid-state image pickup device for an auto-focus for executing a multi-point detection with respect to a plurality of object positions, wherein a sensor for auto-focusing the object of at least the center of a display screen includes said first and second linear sensor pairs according to claim 1.

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8. A solid-state image pickup device for an auto-focus for executing a multi-point detection with respect to a plurality of object positions, wherein a sensor for auto-focusing the object of at least the center of a display screen includes said first to fourth linear sensor pairs according to claim 5.

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- 9. A device according to claim 1, wherein all of said linear sensor pairs have a same pixel shape.
- 10. A device according to claim 5, wherein said first to fourth linear sensor pairs independently control an accumulation time of photocharges of a photoelectric converting device constructing said pixel.
- 11. A device according to claim 10, wherein

 15 said photoelectric converting device is an amplifying type photoelectric converting device and the control of said accumulation time is made by using said amplifying type photoelectric converting device in a real-time manner.
- 12. A device according to claim 11, wherein said solid-state image pickup device is a CMOS type solid-state image pickup device which can be manufactured by a CMOS process.
- 13. An auto-focus camera having the solid-state
 25 image pickup device for the auto-focus according to
 claim 1.